

**TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371**

A-71606-1/MSS (463035-870)

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)

10/519331

INTERNATIONAL APPLICATION NO.

PCT/US2003/19984

INTERNATIONAL FILING DATE

June 23, 2003

PRIORITY DATE CLAIMED

June 23, 2002

TITLE OF INVENTION

METHOD FOR ENERGY-ASSISTED ATOMIC LAYER DEPOSITION AND REMOVAL

APPLICANT(S) FOR DO/EO/US

Aubrey L Helms, Jr., Kerem Kapkin, Sang-In Lee, Yoshihide Senzaki

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This express request to begin national examination procedures (35 U.S.C. 371(f). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☐ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☒ is transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ has been transmitted by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☐ are attached hereto (required only if not transmitted by the International Bureau).
 - b. ☐ had been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration (unsigned) of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20. below concern document(s) or information included:

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included
13. ☐ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A change of power of attorney and/or address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4)
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information:

A copy of Notification of Transmittal of International Search Report, Check no. 302265 in the amount of \$1840.00, and a return stamped addressed postcard.

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR 1.5) 10/519331		INTERNATIONAL APPLICATION NO. PCT/US2003/19984		ATTORNEY'S DOCKET NUMBER A-71606-1/MSS (463035-870)	
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21. The following fees are submitted:

<input checked="" type="checkbox"/> a) Basic national fee	\$300.00	\$ 300.00	
<input checked="" type="checkbox"/> b) Examination fee	\$200.00	\$ 200.00	
<input checked="" type="checkbox"/> c) Search Fee	\$500.00	\$ 500.00	
TOTAL OF ABOVE CALCULATIONS =		\$1000.00	\$ 1,000.00

☐ Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE	
25 - 100	0 /50 =		x \$250.00	

Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	
Total claims	27 -20 =	7	x \$50.00	\$350.00
Independent claims	3 -3 =	0	x \$200.00	\$
MULTIPLE DEPENDENT CLAIM(S) (if applicable)				+ \$360.00 \$360.00
TOTAL OF ABOVE CALCULATIONS =				\$1,840.00

☐ Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.

SUBTOTAL = \$1,840.00

Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).

TOTAL NATIONAL FEE = \$1,840.00

Fee for recording the enclose assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property

TOTAL FEES ENCLOSED = \$1,840.00

	Amount to be refunded:	\$
	charged:	\$

a. ☒ A check in the amount of \$1,840.00 to cover the above fees is enclosed.

b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.
A duplicate copy of this sheet is enclosed.

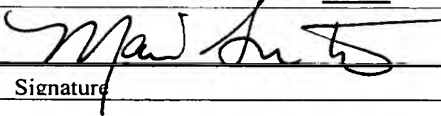
c. ☒ The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 50-2319 A duplicate copy of this sheet is enclosed.

d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.494 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO: **CUSTOMER NUMBER 32940**

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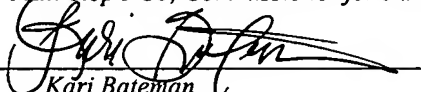
10/519331

"EXPRESS MAIL" Mailing Label Number EV 182 097 346 US

Date of Deposit: December 22, 2004

I hereby certify that the below-listed documents are being deposited with the United States Postal Service
"EXPRESS MAIL POST OFFICE TO ADDRESSEE" service Under 37 CFR 1.10 on the date indicated above and is
addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

SIGNED:


Kari Bateman